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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Tue Jun 05 18:58:10 EDT 2007

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Reviewer Comments:

<210> 3

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic bromodomain peptide

<220>

<221> Xaa

<222> (2)..(4)

<223> Xaa is a maximum of three amino acids. Each of these can be any amino acid. One may be missing.

The above <222> response denotes Xaa's at locations 2 through 4; however, "Pro" is at location 3. Same type of error throughout sequence 3 and sequence 43.

<210> 7

<211> 110

<212> PRT

<213> Homo sapiens, bromodomain peptide

The <213> response above is erroneous; the response should only show "Homo sapiens." Please move "bromodomain peptide" to the <220>-<223> section.

<210> 34

<211> 112

<212> PRT

<213> Description of unknown organism, see Jeanmougin et al.,
Trends in Biochem. Sci. 22:151-153 (1997)

Per 1.823 of Sequence Rules, the only valid <213> response is "Unknown";
do not include any other explanation on the <213> line. The "see
Jeanmougin..." is not a valid explanation of "Unknown." Please give the
source of the genetic material in the <220>-<223> section. Same error
in sequence 35.

Application No: 09510314

Version No: 1.0

Input Set:

Output Set:

Started: 2007-06-05 17:13:10.137

Finished: 2007-06-05 17:13:14.253

Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 116 ms

Total Warnings: 6

Total Errors: 19

No. of SeqIDs Defined: 44

Actual SeqID Count: 44

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
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E 257	Invalid sequence data feature in <221> in SEQ ID (3)
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E 257	Invalid sequence data feature in <221> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
E 257	Invalid sequence data feature in <221> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
E 257	Invalid sequence data feature in <221> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
E 257	Invalid sequence data feature in <221> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (43)
E 257	Invalid sequence data feature in <221> in SEQ ID (43)
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Input Set:

Output Set:

Started: 2007-06-05 17:13:10.137
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Total Warnings: 6
Total Errors: 19
No. of SeqIDs Defined: 44
Actual SeqID Count: 44

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (44)

SEQUENCE LISTING

<110> Zhou, Ming-Ming
Aggarwal, Aneel

<120> Methods of Identifying Modulators of Bromodomains

<130> 2459-1-003

<140> 09510314

<141> 2007-06-05

<150> 09/510,314

<151> 2000-02-22

<160> 44

<170> PatentIn version 3.0

<210> 1

<211> 3014

<212> DNA

<213> Homo sapiens

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<211> 832
<212> PRT
<213> Homo sapiens

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<400> 2

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```

```

Pro Pro Ala Pro Pro Gln Gly Ser Pro Cys Ala Ala Ala Ala Gly Gly
35 40 45

```

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Ser Gly Ala Cys Gly Pro Ala Thr Ala Val Ala Ala Ala Gly Thr Ala
50 55 60

```

```

Glu Gly Pro Gly Gly Gly Gly Ser Ala Arg Ile Ala Val Lys Lys Ala
65 70 75 80

```

```

Gln Leu Arg Ser Ala Pro Arg Ala Lys Lys Leu Glu Lys Leu Gly Val
85 90 95

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Tyr Ser Ala Cys Lys Ala Glu Glu Ser Cys Lys Cys Asn Gly Trp Lys
100 105 110

```

```

Asn Pro Asn Pro Ser Pro Thr Pro Pro Arg Ala Asp Leu Gln Gln Ile
115 120 125

```

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Ile Val Ser Leu Thr Glu Ser Cys Arg Ser Cys Ser His Ala Leu Ala
130 135 140

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Ala His Val Ser His Leu Glu Asn Val Ser Glu Glu Glu Met Asn Arg
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770 775 780

Lys Lys Leu Phe Met Ala Asp Leu Gln Arg Val Phe Thr Asn Cys Lys
785 790 795 800

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<210> 3

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic bromodomain peptide

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<221> Xaa

<222> (2)..(4)

<223> Xaa is a maximum of three amino acids. Each of these can be
any amino acid. One may be missing.

<220>

<221> Xaa

<222> (4)..(11)

<223> Xaa is a maximum of eight amino acids. Each of these can be
any amino acid. One, two, or three may be missing.

<220>

<221> Xaa

<222> (5)..(5)

<223> Xaa is a single amino acid that is either Pro, Lys, or His.

<220>

<221> Xaa

<222> (6)..(6)

<223> Xaa is any single amino acid.

<220>

<221> Xaa

<222> (8)..(8)

<223> Xaa is a single amino acid that can be either Tyr, Phe, or His.

<220>

<221> Xaa

<222> (9)..(13)

<223> Xaa is any amino acid.

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<222> (15)..(15)
<223> Xaa is a single amino acid that can be either Met, Ile, or Val.

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1 5 10 15

<210> 4
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<223> Xaa represents an acetyl lysine.

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Gln Ser Thr Ser Arg His Lys Xaa Leu Met Phe Lys Thr Glu
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<210> 7

<211> 110

<212> PRT

<213> Homo sapiens, bromodomain peptide

<400> 7

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1 5 10 15

Ile Leu Gln Gln Val Lys Ser His Gln Ser Ala Trp Pro Phe Met Glu
20 25 30

Pro Val Lys Arg Thr Glu Ala Pro Gly Tyr Tyr Glu Val Ile Arg Ser
35 40 45

Pro Met Asp Leu Lys Thr Met Ser Glu Arg Leu Lys Asn Arg Tyr Tyr
50 55 60

Val Ser Lys Lys Leu Phe Met Ala Asp Leu Gln Arg Val Phe Thr Asn
65 70 75 80

Cys Lys Glu Tyr Asn Ala Pro Glu Ser Glu Tyr Tyr Lys Cys Ala Asn
85 90 95

Ile Leu Glu Lys Phe Phe Phe Ser Lys Ile Lys Glu Ala Gly
100 105 110

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<211> 110

<212> PRT

<213> Homo sapiens

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20 25 30

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35

40

45

Pro Ile Asp Leu Lys Thr Met Thr Glu Arg Leu Arg Ser Arg Tyr Tyr
 50 55 60

Val Thr Arg Lys Leu Phe Val Ala Asp Leu Gln Arg Val Ile Ala Asn
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Ala Leu Glu Lys Phe Phe Tyr Phe Lys Leu Lys Glu Gly Gly
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<210> 9

<211> 109

<212> PRT

<213> Tetrahymena thermophila

<400> 9

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 50 55 60

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 100 105

<210> 10

<211> 109

<212> PRT

<213> Saccharomyces cerevisiae

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Val Asn Lys Glu Glu Val Pro Asp Tyr Tyr Asp Phe Ile Lys Glu Pro
35 40 45

Met Asp Leu Ser Thr Met Glu Ile Lys Leu Glu Ser Asn Lys Tyr Gln
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Lys Met Glu Asp Phe Ile Tyr Asp Ala Arg Leu Val Phe Asn Asn Cys
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Arg Met Tyr Asn Gly Glu Asn Thr Ser Tyr Tyr Lys Tyr Ala Asn Arg
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Leu Glu Lys Phe Phe Asn Asn Lys Val Lys Glu Ile Pro
100 105

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<211> 112

<212> PRT

<213> Homo sapiens

<400> 11

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20 25 30

Pro Val Asp Pro Gln Leu Leu Gly Ile Pro Asp Tyr Phe Asp Ile Val
35